



OIPE

## RAW SEQUENCE LISTING

DATE: 01/29/2002

PATENT APPLICATION: US/10/033,742

TIME: 10:32:51

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01292002\J033742.raw

p.5

4 <110> APPLICANT: James Karras  
 5 Thomas Condon  
 7 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF MACROPHAGE INFLAMMATORY PROTEIN 3-  
 ALPHA EXPRESSION  
 9 <130> FILE REFERENCE: ISPH-0623  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/033,742  
 C--> 11 <141> CURRENT FILING DATE: 2001-12-28  
 11 <160> NUMBER OF SEQ ID NOS: 32  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 20  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Artificial Sequence  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: Antisense Oligonucleotide  
 21 <400> SEQUENCE: 1  
 22 tccgtcatcg ctcctcaggg 20  
 24 <210> SEQ ID NO: 2  
 25 <211> LENGTH: 20  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Antisense Oligonucleotide  
 32 <400> SEQUENCE: 2  
 33 atgcattctg cccccaagga 20  
 35 <210> SEQ ID NO: 3  
 36 <211> LENGTH: 799  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Homo sapiens  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: CDS  
 42 <222> LOCATION: (59)...(349)  
 44 <400> SEQUENCE: 3  
 45 cactcccaaa gaactgggta ctcaacactg agcagatctg ttctttgagc taaaaaacc 58  
 47 atg tgc tgt acc aag agt ttg ctc ctg gct gct ttg atg tca gtg ctg 106  
 48 Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu  
 49 1 5 10 15  
 51 cta ctc cac ctc tgc ggc gaa tca gaa gca gca agc aac ttt gac tgc 154  
 52 Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys  
 53 20 25 30  
 55 tgt ctt gga tac aca gac cgt att ctt cat cct aaa ttt att gtg ggc 202  
 56 Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly  
 57 35 40 45  
 59 ttc aca cgg cag ctg gcc aat gaa ggc tgt gac atc aat gct atc atc 250  
 60 Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile

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61          50          55          60
63 ttt cac aca aag aaa aag ttg tct gtg tgc gca aat cca aaa cag act 298
64 Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr
65 65          70          75          80
67 tgg gtg aaa tat att gtg cgt ctc ctc agt aaa aaa gtc aag aac atg 346
68 Trp Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met
69          85          90          95
71 taa aaactgtggc ttttctggaa tggaattgga catagcccaa gaacagaaag 399
73 aaccttgctg gggttggagg tttcacttgc acatcatgga gggtttagtg cttatctaata 459
74 ttgtgacctca ctggacttgt ccaattaatg aagttgattc atattgcatc atagtttgct 519
75 ttgtttaagc atcacattaa agttaaactg tattttatgt tatttatagc tgtaggtttt 579
76 ctgtgttttag ctatttaata ctaattttcc ataagctatt ttggtttagt gcaaagtata 639
77 aaattatatt tgggggggaa taagattata tggactttct tgcaagcaac aagctatttt 699
78 ttaaaaaaac tatttaacat tcttttgttt atattgtttt gtctcctaaa ttgttgtaat 759
79 tgcattataa aataagaaaa acattaataa gacaaatatt 799
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 25
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: PCR Primer
89 <400> SEQUENCE: 4
90 aaaccatgtg ctgtaccaag agttt 25
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 18
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: PCR Primer
100 <400> SEQUENCE: 5
101 cgccgcagag gtggagta 18
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 28
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: PCR Probe
111 <400> SEQUENCE: 6
112 gctcctggct gctttgatgt cagtgtgt 28
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 19
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: PCR Primer
122 <400> SEQUENCE: 7
123 gaaggtgaag gtcggagtc 19
125 <210> SEQ ID NO: 8
126 <211> LENGTH: 20

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127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: PCR Primer
133 <400> SEQUENCE: 8
134 gaagatggtg atgggatttc 20
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 20
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: PCR Probe
144 <400> SEQUENCE: 9
145 caagcttccc gttctcagcc 20
147 <210> SEQ ID NO: 10
148 <211> LENGTH: 20
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Antisense Oligonucleotide
155 <400> SEQUENCE: 10
156 taccagttc ttggggagtg 20
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 20
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Antisense Oligonucleotide
166 <400> SEQUENCE: 11
167 agtggtgagt acccagttct 20
169 <210> SEQ ID NO: 12
170 <211> LENGTH: 20
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Antisense Oligonucleotide
177 <400> SEQUENCE: 12
178 agatctgctc agtggtgagt 20
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 20
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Antisense Oligonucleotide
188 <400> SEQUENCE: 13
189 ctcaaagaac agatctgctc 20
191 <210> SEQ ID NO: 14
192 <211> LENGTH: 20
193 <212> TYPE: DNA

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194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Antisense Oligonucleotide
199 <400> SEQUENCE: 14
200 tggtttttag ctcaaagaac 20
202 <210> SEQ ID NO: 15
203 <211> LENGTH: 20
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Antisense Oligonucleotide
210 <400> SEQUENCE: 15
211 gtacagcaca tggtttttag 20
213 <210> SEQ ID NO: 16
214 <211> LENGTH: 20
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Antisense Oligonucleotide
221 <400> SEQUENCE: 16
222 aagttgcttg ctgcttctga 20
224 <210> SEQ ID NO: 17
225 <211> LENGTH: 20
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Antisense Oligonucleotide
232 <400> SEQUENCE: 17
233 cagcagtcaa agttgcttgc 20
235 <210> SEQ ID NO: 18
236 <211> LENGTH: 20
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Antisense Oligonucleotide
243 <400> SEQUENCE: 18
244 gtgtgaaaga tgatagcatt 20
246 <210> SEQ ID NO: 19
247 <211> LENGTH: 20
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Antisense Oligonucleotide
254 <400> SEQUENCE: 19
255 attccagaaa agccacagtt 20
257 <210> SEQ ID NO: 20
258 <211> LENGTH: 20
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence

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TIME: 10:32:51

Input Set : A:\PTO.AMC.txt

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262 <220> FEATURE:  
263 <223> OTHER INFORMATION: Antisense Oligonucleotide  
265 <400> SEQUENCE: 20  
266 gtccaattcc attccagaaa 20  
268 <210> SEQ ID NO: 21  
269 <211> LENGTH: 20  
270 <212> TYPE: DNA  
271 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: Antisense Oligonucleotide  
276 <400> SEQUENCE: 21  
277 cttgggctat gtccaattcc 20  
279 <210> SEQ ID NO: 22  
280 <211> LENGTH: 20  
281 <212> TYPE: DNA  
282 <213> ORGANISM: Artificial Sequence  
284 <220> FEATURE:  
285 <223> OTHER INFORMATION: Antisense Oligonucleotide  
287 <400> SEQUENCE: 22  
288 caaggttctt tctgttcttg 20  
290 <210> SEQ ID NO: 23  
291 <211> LENGTH: 20  
292 <212> TYPE: DNA  
293 <213> ORGANISM: Artificial Sequence  
295 <220> FEATURE:  
296 <223> OTHER INFORMATION: Antisense Oligonucleotide  
298 <400> SEQUENCE: 23  
299 gtgaaacctc caaccccagc 20  
301 <210> SEQ ID NO: 24  
302 <211> LENGTH: 20  
303 <212> TYPE: DNA  
304 <213> ORGANISM: Artificial Sequence  
306 <220> FEATURE:  
307 <223> OTHER INFORMATION: Antisense Oligonucleotide  
309 <400> SEQUENCE: 24  
310 ttagataagc actaaaccct 20  
312 <210> SEQ ID NO: 25  
313 <211> LENGTH: 20  
314 <212> TYPE: DNA  
315 <213> ORGANISM: Artificial Sequence  
317 <220> FEATURE:  
318 <223> OTHER INFORMATION: Antisense Oligonucleotide  
320 <400> SEQUENCE: 25  
321 gcaatatgaa tcaacttcat 20  
323 <210> SEQ ID NO: 26  
324 <211> LENGTH: 20  
325 <212> TYPE: DNA  
326 <213> ORGANISM: Artificial Sequence  
328 <220> FEATURE:

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/033,742

DATE: 01/29/2002

TIME: 10:32:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01292002\J033742.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/033,742

CRF Processing Date: 1/29/2002  
 Edited by: [Signature]  
 Verified by: [Signature] (STIC Staff)

**ENTERED**

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

☐ Deleted extra, invalid, headings used by an applicant, specifically:

☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.

☐ Inserted mandatory headings, specifically: \_\_\_\_\_

☐ Corrected an obvious error in the response, specifically:

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95